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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/717,557	11/21/2003	Satoshi Tamura	60188-716	8470		
75	590 01/10/2006	EXAMINER				
Jack Q. Lever, Jr.			ROSE, KIESHA L			
McDERMOTT 600 Thirteenth	, WILL & EMERY Street, N.W.	ART UNIT	PAPER NUMBER			
Washington, DC 20005-3096			2822			
			DATE MAILED: 01/10/200	DATE MAILED: 01/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.		Applicant(s)				
		10/717,557	-	TAMURA ET AL.	•				
Office Action Summary			Examiner		Art Unit				
			Kiesha L. Rose	:	2822	<u> </u>			
Period fo	The MAILING DATE of this commun or Reply	nication app	ears on the cover she	et with the co	rrespondence ad	dress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common operiod for reply is specified above, the maximum is re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DA s of 37 CFR 1.13 munication. tatutory period wi y will, by statute,	TE OF THIS COMM 6(a). In no event, however, m ill apply and will expire SIX (6) cause the application to become	UNICATION. nay a reply be timel) MONTHS from the me ABANDONED	y filed e mailing date of this c (35 U.S.C. § 133).				
Status	·	•							
1)	Responsive to communication(s) file	ed on 26 Oc	tober 2005.	•					
′—			action is non-final.		-				
3)	,								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims								
4)⊠	Claim(s) 1-7 and 15-22 is/are pendi	ng in the ap	plication.			•			
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
6)🖂									
7)									
8)[Claim(s) are subject to restrict	ction and/or	election requirement	t.					
Applicati	on Papers		,		-	• •			
9)[]	The specification is objected to by th	ne Examiner	•						
·	•			d to by the Ex	aminer.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including			-		FR 1.121(d).			
11)	The oath or declaration is objected to	o by the Exa	aminer. Note the atta	ched Office A	ction or form P1	O-152.			
Priority u	ınder 35 U.S.C. § 119				• • .				
12)	Acknowledgment is made of a claim	for foreign	oriority under 35 H.S.	C 8 119(a)-(d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
-/.	1. Certified copies of the priority documents have been received.								
	Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies					Stage			
	application from the Internation	nal Bureau	(PCT Rule 17.2(a)).			•			
* S	See the attached detailed Office action	on for a list o	of the certified copies	not received.					
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*	44.5			-					
Attachmen	t(s) e of References Cited (PTO-892)		4) [l=t==	dow Summer: 15	TO 412\				
2) Notic	e of References Clied (PTO-892) e of Draftsperson's Patent Drawing Review (F	riew Summary (P r No(s)/Mail Date	· ·						
3) 🛛 Inforr	nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date <u>6/13/05</u> .			e of Informal Pater:	ent Application (PTC)-152)			

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DETAILED ACTION

This Office Action is in response to the amendment filed 26 October 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 and 15-22 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chua et al. (U.S. Publication 2003/0231683).

Chua discloses a nitride based semiconductor structure (Figs. 2 and 4) that contains a semiconductor multilayer structure comprising a plurality of Group III-V nitride semiconductor layers (108-114) including two semiconductor layers of different conductivity types, a passivation film (116) formed on the semiconductor multilayer structure and has an interface with the semiconductor and a transparent electrode (118) formed on the semiconductor multilayer structure where the passivation film is not formed, wherein the transparent electrode contains an impurity element developing the same conductivity type as that of an impurity element introduced into a semiconductor.

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in the semiconductor multilayer structure and the semiconductor having an interface with the transparent electrode wherein the impurity elements are magnesium and zinc, the transparent electrode is made of indium tin oxide, a multilayer film (126) on the transparent electrode that reflects light emitted from the semiconductor and includes a plurality of dielectric layers and is made of silicon oxide and tantalum oxide, the multilayer film can also be formed on the side of the semiconductor multilayer structure opposite the transparent electrode (Fig. 2), the multilayer (126) is formed on the sides of the transparent electrode. In regards to the impurity element being diffused in the semiconductor having the interface with the transparent electrode, the impurity Mg that is in the semiconductor layer (114) is annealed to the transparent electrode and is diffused into the transparent electrode so the transparent electrode and the semiconductor layer both contain the impurity Mg. (Page 3, Paragraphs 39-41)

Response to Arguments

Applicant's arguments with respect to claims 1-7 and 15-22 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on T-F 8:30-6:00 off Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ZANDRA V. SMITH
SUPERVISORY PATENT EXAMINER

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